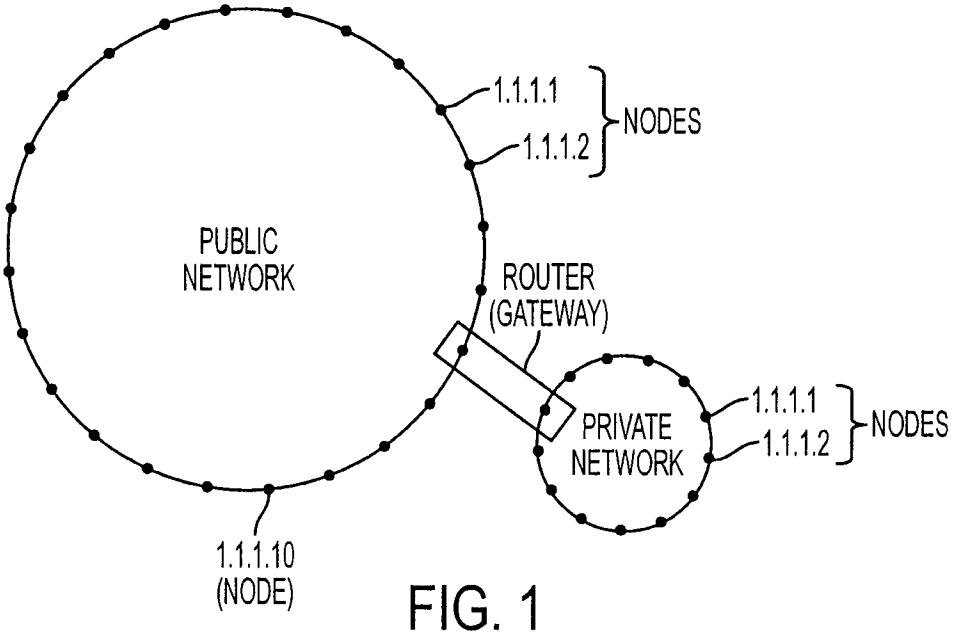
1.1.1.1
1.1.1.2
NODES
PUBLIC
NETWORK
ROUTER
(GATEWAY)
PRIVATE
NETWORK
1.1.1.1
1.1.1.2
NODES
1.1.1.10
(NODE)

FIG. 1

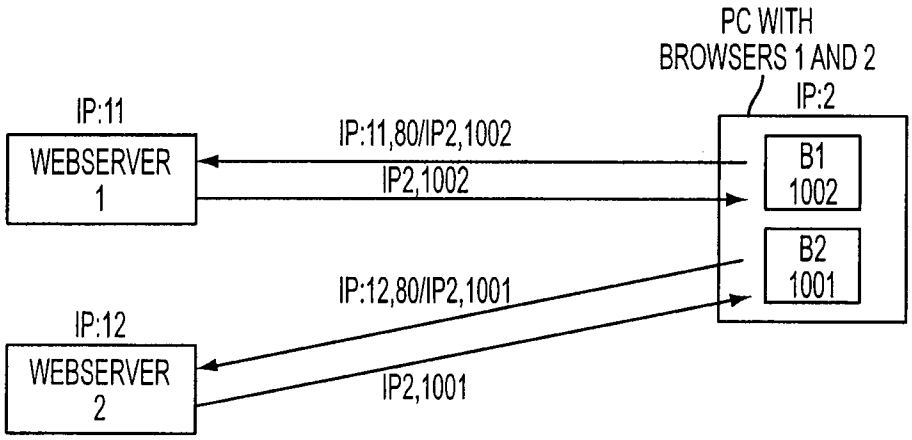
PC WITH
BROWSERS 1 AND 2
IP:2
IP:11
WEBSERVER
1
IP:11,80/IP2,1002
IP2,1002
B1
1002
B2
1001
IP:12,80/IP2,1001
IP:12
WEBSERVER
2
IP2,1001

FIG. 2

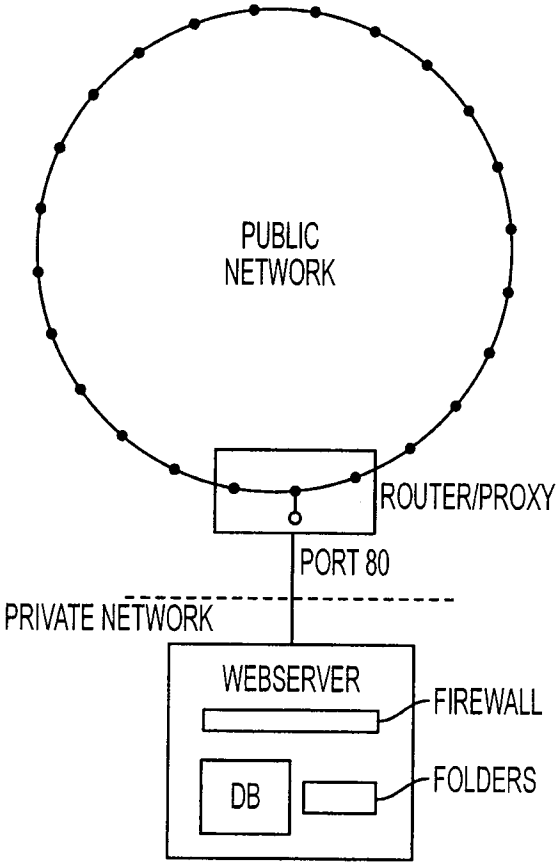
PUBLIC
NETWORK
ROUTER/PROXY
PORT 80
PRIVATE NETWORK
WEBSERVER
FIREWALL
DB
FOLDERS

FIG. 3

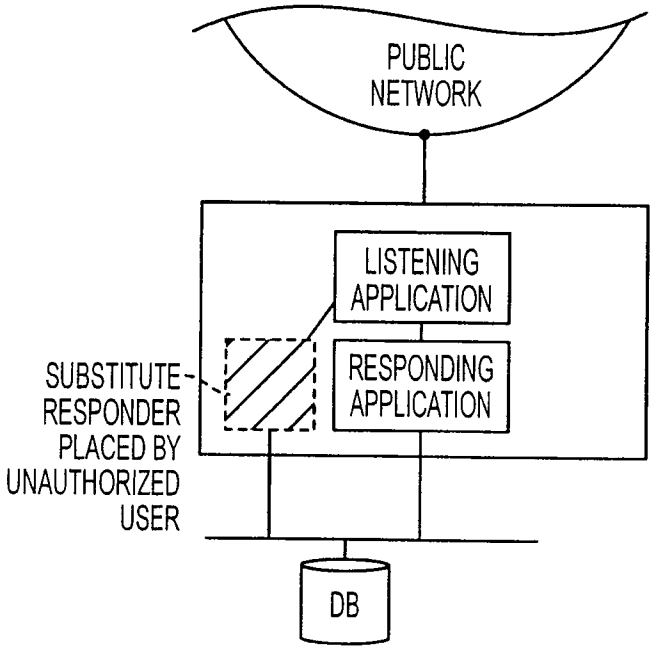
PUBLIC
NETWORK
LISTENING
APPLICATION
RESPONDING
APPLICATION
SUBSTITUTE
RESPONDER
PLACED BY
UNAUTHORIZED
USER
DB

FIG. 4

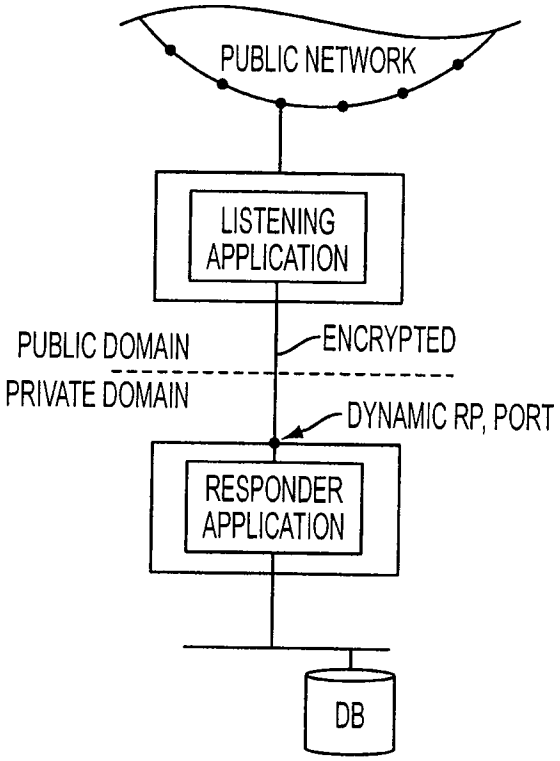
PUBLIC NETWORK
LISTENING APPLICATION
PUBLIC DOMAIN
ENCRYPTED
PRIVATE DOMAIN
DYNAMIC RP, PORT
RESPONDER APPLICATION
DB

FIG. 5

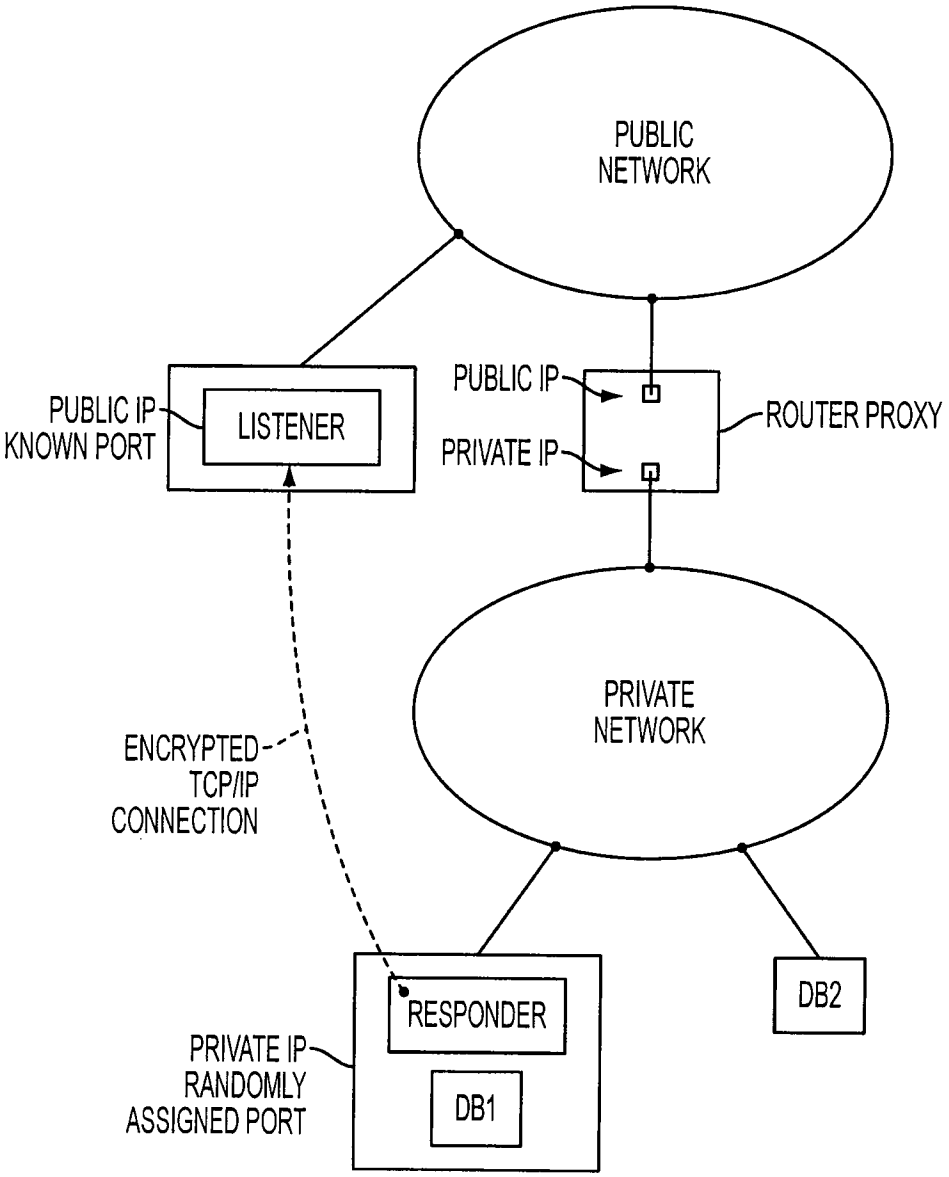
PUBLIC NETWORK
PUBLIC IP
KNOWN PORT
LISTENER
PUBLIC IP
PRIVATE IP
ROUTER PROXY
PRIVATE NETWORK
ENCRYPTED TCP/IP CONNECTION
RESPONDER
DB1
DB2
PRIVATE IP RANDOMLY ASSIGNED PORT

FIG. 6A

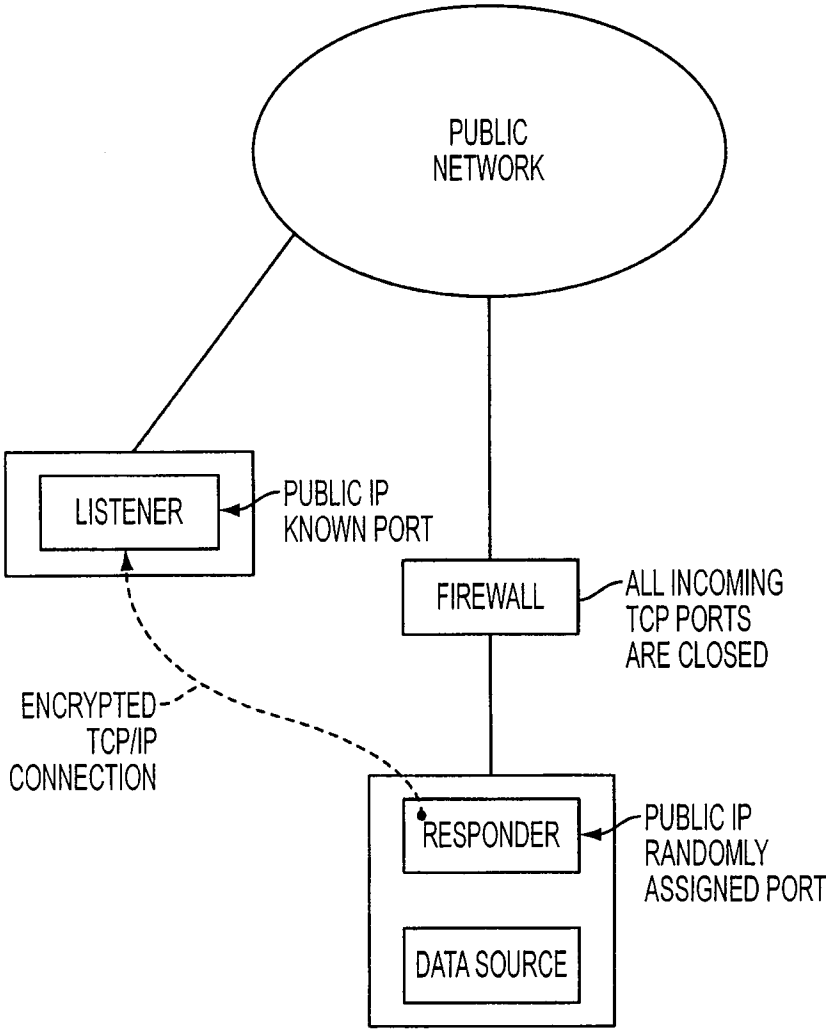
PUBLIC NETWORK
LISTENER
PUBLIC IP KNOWN PORT
FIREWALL
ALL INCOMING TCP PORTS ARE CLOSED
ENCRYPTED TCP/IP CONNECTION
RESPONDER
PUBLIC IP RANDOMLY ASSIGNED PORT
DATA SOURCE

FIG. 6B

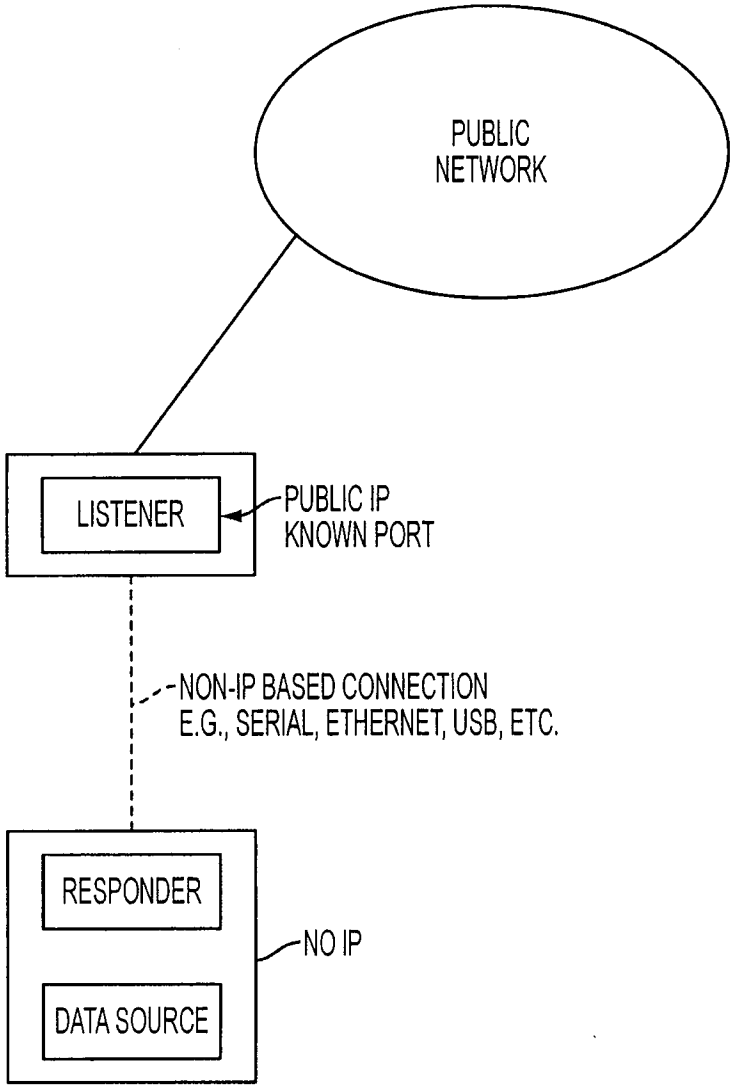
PUBLIC
NETWORK
LISTENER
PUBLIC IP
KNOWN PORT
NON-IP BASED CONNECTION
E.G., SERIAL, ETHERNET, USB, ETC.
RESPONDER
DATA SOURCE
NO IP

FIG. 6C